



# MATERIAL SAFETY DATA SHEET

## PRODUCT

NALCO 8365LF LIQUID

## Emergency Telephone Number

Medical (708) 920-1510 (24 hours)

### SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO 8365LF LIQUID \*

DESCRIPTION: Aqueous solution of sulfonated polyacrylate polymer, \*  
phosphonates, triazole and borate \*

NFPA 704M/HMIS RATING: 2/2 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER \*  
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme \*

### SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical \*  
ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 \*  
CFR 1910.1200. Consult Section 14 for the nature of the hazard(s). \*

INGREDIENT(S)	CAS #	APPROX.%
Sodium tetraborate	1330-43-4	1-5

### SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Causes irritation to skin and eyes. Do not get in eyes, on skin, or on \*  
clothing. Wear goggles and face shield when handling. Do not take internally. \*

Empty containers may contain residual product. Do not reuse container \*  
unless properly reconditioned. \*

### SECTION 4 FIRST AID INFORMATION

EYES: Immediately flush for at least 15 minutes while holding \*  
eyelids open. Call a physician at once. \*

SKIN: Immediately flush with water for at least 15 minutes. \*  
For a large splash, flood body under a shower. Call a \*  
physician at once. \*

INGESTION: Do not induce vomiting. Give water. Call a physician \*  
at once. \*

INHALATION: Remove to fresh air. Treat symptoms. Call a physician. \*

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the \*  
physician's judgment should be used to control symptoms and clinical condition. \*

CAUTION: If unconscious, having trouble breathing or in convulsions, \*  
do not induce vomiting or give water. \*

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use \*  
of gastric lavage. Measures against circulatory shock, respiratory \*



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## SECTION 4 FIRST AID INFORMATION

( CONTINUED )

depression and convulsions may be needed. \*

## SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin \*

EYE CONTACT: Can cause severe irritation. \*

SKIN CONTACT: Can cause moderate irritation. \*

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned. \*

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions. \*

## SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have not been conducted on this product, but acute studies have been conducted on a similar product. The results are shown below. \*

ACUTE ORAL TOXICITY (ALBINO RATS): LD<sub>50</sub> = Greater than 5,000 mg/kg \*

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS): \*

SKIN IRRITATION INDEX DRAIZE RATING: 1.22/8.0 Slightly irritating \*

COMMENTS: Slight redness and swelling were noted after four hours of contact. All animal skin sites were normal by 72 hours after contact. \*

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS): \*

EYE IRRITATION INDEX DRAIZE RATING: 13.8/110.0 \*

COMMENTS: Slight corneal opacity and redness, swelling, and discharge of the conjunctiva were initially observed. All eyes were normal 72 hours after contact. \*

## SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Yellow to gold	FORM: Liquid	ODOR: Mild	*
DENSITY:	9.9-10.4 lbs/gal.		*
SOLUBILITY IN WATER:	Completely		*
SPECIFIC GRAVITY:	1.19-1.25 @ 60 Degrees F	ASTM D-1298	*
pH (NEAT) =	11.0-13.5	ASTM E-70	*
VISCOSITY:	10 - 14 cps @ 70 Degrees F	ASTM D-2983	*



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## SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

( CONTINUED )

FREEZE POINT:	22 Degrees F	ASTM D-1177	*
FLASH POINT:	None (PMCC)	ASTM D-93	*

NOTE: These physical properties are typical values for this product. \*

## SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: None (PMCC) ASTM D-93 \*

EXTINGUISHING MEDIA: This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use water to cool containers exposed to fire. \*

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve NOx under fire conditions. \*

## SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid contact with strong acids (eg. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) which can generate heat, splattering or boiling and the release of toxic fumes. \*

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO<sub>2</sub>, NOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment. \*

## SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed. \*

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended. \*

VENTILATION: General ventilation is recommended. \*

PROTECTIVE EQUIPMENT: Wear impermeable gloves, boots, apron, and a face shield with chemical splash goggles. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton, and butyl (compatibility studies have not been performed. A full slicker suit is recommended if gross exposure is possible. \*

The availability of an eye wash fountain and safety shower is recommended. \*

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. \*



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## SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR  
TELEPHONE NUMBER (708-920-1510)

### SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

DISPOSAL: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D002.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state, and federal regulations.

## SECTION 12 ENVIRONMENTAL INFORMATION

BIOCHEMICAL OXYGEN DEMAND (5-day BOD): 3,400 ppm

CHEMICAL OXYGEN DEMAND: 200,000 ppm

AQUATIC DATA: For a similar product

96 hour static acute  $LC_{50}$  to Bluegill Sunfish = 750 ppm

96 hour no observed effect concentration is 560 ppm based on no mortality or abnormal effects.

96 hour static acute  $LC_{50}$  to Rainbow Trout = 750 ppm

96 hour no observed effect concentration is 320 ppm based on no mortality or abnormal effects.

If released into the environment, see CERCLA in Section 14.



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### SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - ORM-B, N.O.S. \*  
ORM-B NA 1760 \*  
CONTAINS - SODIUM HYDROXIDE \*

### SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product. \*

#### FEDERAL REGULATIONS: \*

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: \*  
Based on our hazard evaluation, the following ingredient in this \*  
product is hazardous and the reason is shown below. \*

Sodium tetraborate - Irritant \*

Sodium tetraborate = TWA 1 mg/m<sup>3</sup> ACGIH/TLV \*

Sodium tetraborate = TWA 10 mg/m<sup>3</sup> OSHA/PEL \*

CERCLA/SUPERFUND, 40 CFR 117, 302: \*  
Notification of spills of this product is not required. \*

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 \*  
(TITLE III) - SECTIONS 302, 311, 312 AND 313: \*

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): \*  
This product does not contain ingredients listed in Appendix A and B as an \*  
Extremely Hazardous Substance. \*

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): \*  
Our hazard evaluation has found this product to be hazardous. The product \*  
should be reported under the following EPA hazard categories: \*

XX Immediate (acute) health hazard \*  
-- Delayed (chronic) health hazard \*  
-- Fire hazard \*  
-- Sudden release of pressure hazard \*  
-- Reactive hazard \*

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): \*  
This product does not contain ingredients (at a level of 1% or greater) on the \*  
List of Toxic Chemicals. \*



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## SECTION 14 REGULATORY INFORMATION

( CONTINUED )

### TOXIC SUBSTANCES CONTROL ACT (TSCA):

The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/ formerly Sec. 307, 40 CFR 116/formerly Sec. 311: None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: This product does not contain ingredients covered by the Clean Air Act.

### STATE REGULATIONS:

#### CALIFORNIA PROPOSITION 65:

This product does not contain any chemicals which require warning under California Proposition 65.

#### MICHIGAN CRITICAL MATERIALS:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

### STATE RIGHT TO KNOW LAWS:

Regulated in those states using the TLV for sodium tetraborate as a criteria for listing.

## SECTION 15 ADDITIONAL INFORMATION

None

## SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.



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## SECTION 17 BIBLIOGRAPHY

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DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, Sax, N. Irving, ed., Van Nostrand Reinhold Company, N.Y., 6th edition, 1984.

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, Geneva: World Health Organization, International Agency for Research on Cancer, 1972-1977.

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REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, 1983 supplement of 1981-1982 edition, Vol. 1-3, OH, 1984.

Title 29 Code of Federal Regulations Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, American Conference of Governmental Industrial Hygienists, OH.

Information on this MSDS has changed. The changes are indicated by asterisks on the right side of only the changed sections. This is an updated MSDS as required by OSHA's Hazard Communication Rule 29 CFR 1910.1200.

PREPARED BY: Ricky A. Stackhouse PhD., Toxicologist

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